



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Lieping Chen et al.  
Serial No. : 10/072,622  
Filed : February 7, 2002  
Title : ICOS MUTANTS

Art Unit : 1614  
Examiner : Unknown

Commissioner for Patents  
Washington, D.C. 20231

RECEIVED

JUN 12 2002

TECH CENTER 1600/2900

TRANSMITTAL

The following correspondence relating to this application is enclosed for filing:

1. Information Disclosure Statement (1 page);
2. Form PTO-1449 (2 pages);
3. Copies of Cited References (19); and
4. A Return Postcard.

Please date stamp and mail the enclosed postcard.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date:

May 30, 2002

Mark S. Ellinger, Ph.D.

Reg. No. 34,812

Fish & Richardson P.C., P.A.  
60 South Sixth Street  
Suite 3300  
Minneapolis, MN 55402  
Telephone: (612) 335-5070  
Facsimile: (612) 288-9696

60086790.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit

Signature

5-30-02

Trisha J. Anderson

Typed or Printed Name of Person Signing Certificate



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

JUN 12 2002

TECH CENTER 1600/2900

Applicant : Lieping Chen et al.  
Serial No. : 10/072,622  
Filed : February 7, 2002  
Title : ICOS MUTANTS

Art Unit : 1614  
Examiner : Unknown

Commissioner for Patents  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449, copies of which are enclosed.

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: May 30, 2002

Mark S. Ellinger, Ph.D.  
Reg. No. 34,812

Fish & Richardson P.C., P.A.  
60 South Sixth Street  
Suite 3300  
Minneapolis, MN 55402  
Telephone: (612) 335-5070  
Facsimile: (612) 288-9696

60086788.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

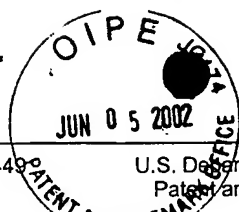
Date of Deposit

Signature

5-30-02

Trisha J. Anderson

Typed or Printed Name of Person Signing Certificate



Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07039-331001	Application No. 10/072,622
		Applicant Lieping Chen et al.	
		Filing Date February 7, 2002	Group A 1614

**Information Disclosure Statement  
by Applicant**  
(Use several sheets if necessary)

(37 CFR §1.98(b))

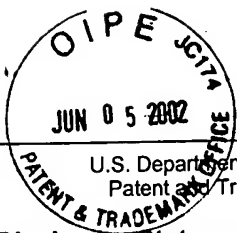
**RECEIVED**  
JUN 12 2002  
TECH CENTER 1600/2900

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AB							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AC	Bajorath et al., "Molecular modeling of CD28 and three-dimensional analysis of residue conservation in the CD28/CD152 family," <u>Journal of Molecular Graphics and Modelling</u> , 1997, 15(2):135-139
	AD	Bajorath, "A Molecular Model of Inducible Costimulator Protein and Three-Dimensional Analysis of its Relation to the CD28 Family of T Cell-Specific Costimulatory Receptors," <u>J. Mol. Model.</u> , 1999, 5:169-176
	AE	Boise et al., "CD28 and apoptosis," <u>Curr. Opin. Immunol.</u> , 1995, 7:620-625
	AF	Buonfiglio et al., "The T cell activation molecule H4 and the CD28-like molecule ICOS are identical," <u>Eur. J. Immunol.</u> , 2000, 30:3463-3467
	AG	Chambers and Allison, "Co-stimulation in T cell responses," <u>Curr. Opin. Immunol.</u> , 1997, 9:396-404
	AH	Dong et al., "B7-H1, a third member of the B7 family, co-stimulates T-cell proliferation and interleukin-10 secretion," <u>Nature Medicine</u> , 1999, 5(12):1365-1369
	AI	Hunkapiller and Hood, "Diversity of the Immunoglobulin Gene Superfamily," <u>Adv. Immunol.</u> , 1989, 44:1-63
	AJ	Hutloff et al., "ICOS is an inducible T-cell co-stimulator structurally and functionally related to CD28," <u>Nature</u> , 1999, 397:263-266
	AK	Krummel and Allison, "CTLA-4 Engagement Inhibits IL-2 Accumulation and Cell Cycle Progression upon Activation of Resting T Cells," <u>J. Exp. Med.</u> , 1996, 183:2533-2540
	AL	Lenschow et al., "CD28/B7 System of T Cell Costimulation," <u>Annu. Rev. Immunol.</u> , 1996, 14:233-258
	AM	Linsley and Ledbetter, "The Role of the CD28 Receptor During T Cell Responses to Antigen," <u>Annu. Rev. Immunol.</u> , 1993, 11:191-212
	AN	Lucia et al., "Expression of the Novel T Cell Activation Molecule hpH4 in HIV-Infected Patients: Correlation with Disease Status," <u>Aids Research and Human Retroviruses</u> , 2000, 16(6):549-557
	AO	Metzler et al., "Solution structure of human CTLA-4 and delineation of a CD80/CD86 binding site conserved in CD28," <u>Nature Structural Biology</u> , 1997, 4(7):527-531
	AP	Peach et al., "Complementarity Determining Region 1 (CDR1)- and CDR3-analogous Regions in CTLA-4 and CD28 Determine the Binding to B7-1," <u>J. Exp. Med.</u> , 1994, 180:2049-2058
	AQ	Rathmell and Thompson, "The Central Effectors of Cell Death in the Immune System," <u>Annu. Rev. Immunol.</u> , 1999, 17:781-828

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07039-331001	Application No. 10/071,612
		Applicant Lieping Chen et al.	
	Filing Date February 7, 2002	Group Art Unit 1614	

**RECEIVED**  
JUN 12 2002  
TECH CENTER 1600/2900

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AR	Walunas et al., "CTLA-4 Ligation Blocks CD28-dependent T Cell Activation," <u>J. Exp. Med.</u> , 1996, 183:2541-2550
	AS	Wang et al., "Costimulation of T cells by B7-H2, a B7-like molecule that binds ICOS," <u>Blood</u> , 2000, 96(8):2808-2813
	AT	Yoshinaga et al., "T-cell co-stimulation through B7RP-1 and ICOS," <u>Nature</u> , 1999, 402:827-832
	AU	Yoshinaga et al., "Characterization of a new human B7-related protein: B7RP-1 is the ligand to the co-stimulatory protein ICOS," <u>International Immunology</u> , 2000, 12(10):1439-1447

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	